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CENTRAL INTELLIGENCE AGENCY  
WASHINGTON, D.C. 20505

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17 April 1974

MEMORANDUM FOR: Donald Born  
Economics Officer for India  
Room 5253  
New State Building

SUBJECT: India's Fertilizer Production

1. The attached tables are provided in response to your recently-stated interest in India's fertilizer industry. Data were extracted from...

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2. Fertilizer production in 1973-74 (April-March) is estimated at 1,050,000 tons of nitrogen nutrients (N) and 350,000 tons of phosphorous nutrients ( $P_2O_5$ ), about the same level as 1972/73. Production during the first three-quarters of 1973/74 was down slightly from the same period of the previous year, 3% for nitrogen and 1% for phosphorous. Recent reports, however, indicate that production improved during the last quarter. With approximately the same level of production in 1973/74 as in 1972/73, capacity utilization declined due to additions to capacity.

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\* Capacity data are average capacity during the fiscal year. Thus, utilization figures are already adjusted for changes in capacity.

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Table 1

India: Summary Table Fertilizer Production

	<u>1971/72</u> <sup>1/</sup>	<u>1972/73</u> <sup>1/</sup>
Capacity (metric tons)		
Total nitrogen (N)	1,382,570	1,471,500
Total phosphorous (P <sub>2</sub> O <sub>5</sub> )	462,010	504,510
Total fertilizer	1,844,580	1,976,010
Production (metric tons)		
Total nitrogen (N)	949,040	1,054,248
Total phosphorous (P <sub>2</sub> O <sub>5</sub> )	289,809	332,575
Total fertilizer	1,238,849	1,386,823
Utilization		
Nitrogen (N)	69%	72%
Phosphorous (P <sub>2</sub> O <sub>5</sub> )	63%	66%
Total fertilizer	67%	70%

<sup>1/</sup> India fiscal year 1 April-31 March.

Table 2

India: Nitrogen Production in the Public Sector

Plant Location	Production Started	Present Plant Capacity <sup>1/</sup> (metric tons)	Output <sup>1/</sup>		Utilization	
			1971/72 <sup>2/</sup> (metric tons)	1972/73 <sup>2/</sup> (metric tons)	1971/72 <sup>2/</sup> (%)	1972/73 <sup>2/</sup> (%)
1. Sindri Bihar	1951	90,000	57,222	55,364	64	62
2. Naya Mangal Punjab	1961	80,000	56,531	53,981	71	67
3. Trombay Maharashtra	1965	81,000	68,353	60,709	84	75
4. Namrup Assam	1968	45,000	29,819	33,718	66	75
5. Gorakhpur Uttar Pradesh	1968	80,000	76,000	66,733	95	83
6. Alwaye Kerala	1960	75,750 (1971/72) 82,000 (1972/73)	36,364	28,592	48	35
7. Neyveli Tamil Nadu	1966	70,000	19,751	20,910	28	30
8. Manali Tamil Nadu	1971	82,000 (1971/72) 164,000 (1972/73)	42,413	164,832	52	64
9. Rourkela Orissa	1969	120,000	46,352	49,007	39	41
10. Rourkela Orissa	1967	5,770	1,492	2,331	26	40
11. Bhilai Madhya Pradesh	1959	6,720	4,698	5,812	70	86
12. Durgapur West Bengal	1960	4,370	2,566	2,557	59	59
13. Bumpur-Kulti West Bengal	After 1947	4,740	3/	1,835	3/	39
14. Bokaro Bihar	1972	1,360 <sup>4/</sup>	—	496	—	73 <sup>4/</sup>
TOTALS 1971/72 1972/73		740,610 834,280	441,561	486,967	60	58

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Table 3

India: Nitrogen Production in the Private Sector

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Plant Location	Production Started	Present Plant Capacity <sup>1/</sup> (metric tons)	Output <sup>1/</sup>		Utilization	
			1971/72 <sup>2/</sup> (metric tons)	1972/73 <sup>2/</sup> (metric tons)	1971/72 <sup>3/</sup> (%)	1972/73 <sup>3/</sup> (%)
1. Ennore Tamil Nadu	1963	8,240	6,890	6,918	84	84
2. Ennore Tamil Nadu	1968	7,950	4,161	4,455	52	56
3. Varanasi Uttar Pradesh	1959	10,000	4,611	3,465	46	35
4. Baroda Gujarat	1967	216,000	185,440	202,603	86	94
5. Visakhapatnam Andhra Pradesh	1968	80,000	64,595	58,917	81	74
6. Kota Rajasthan	1969	110,000	107,276	127,525	98	116 <sup>3/</sup>
7. Panki Uttar Pradesh	1969	200,000	128,524	160,282	64	80
8. Banskjora Bihar	Before 1939	270	—	—	—	—
9. Jamshedpur Bihar	Before 1939	4,760	2,973	3,053	62	69
10. Bampur-Kulti West Bengal	After 1947	4,740	3,009	4 <sup>4/</sup>	63	- 4 <sup>4/</sup>
TOTALS 1971/72 1972/73		641,960 637,220	507,479	567,281	79	89

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## India: New Nitrogen Plants

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<u>Location of Plant</u>	<u>Commercial Production Scheduled to Begin</u>	<u>Capacity 1/ (metric tons)</u>
<u>Public Sector</u>		
1. Durgapur West Bengal	October 1973 <u>2/</u>	152,000
2. Cochin Kerala	July 1973 <u>2/</u>	152,000
3. Barauni Bihar	October 1974	152,000
4. Namrup expansion Assam	December 1974	152,000
5. Gorakhpur expansion Uttar Pradesh	end 1975	51,000
6. Nangal expansion Punjab	mid 1976	152,000
7. Haldia West Bengal	end 1976	152,000
8. Talcher Orissa	end 1976	228,000
9. Ramagundam Andhra Pradesh	end 1976	228,000
10. Cochin expansion Kerala	end 1976	40,000
11. Korba Madhya Pradesh	1978	228,000

(Table Continued)

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Table 4

India: New Nitrogen Plants  
(Continued)

25X1

<u>Location of Plant</u>	<u>Commercial Production Scheduled to Begin</u>	<u>Capacity <sup>1/</sup> (metric tons)</u>
<u>Private Sector</u>		
1. San Coale Goa	May 1973 <sup>2/</sup>	170,000
2. Kota expansion Rajasthan	July 1974	42,000
3. Vishakhapatam expansion Andhra Pradesh	September 1974	9,000
4. Tuticorin Tamil Nadu	December 1974	258,000
5. Mangalore Karnataka	end 1974	160,000
<u>Cooperative Sector</u>		
1. Kandla Gujarat	early 1975	215,000

1. In terms of annual production of nitrogen nutrients (N).
2. There is no information available on production at these plants.

Table 5

India: Phosphorous Production in the Public Sector

25X1

Plant Location	Production Started	Present Plant Capacity <u>1/</u> (metric tons)	Output <u>1/</u>		Utilization	
			1971/72 <u>2/</u> (metric tons)	1972/73 <u>2/</u> (metric tons)	1971/72 <u>2/</u> (%)	1972/73 <u>2/</u> (%)
1. Trombay Maharashtra	1965	36,000	40,675	36,012	113	100
2. Alwaye Kerala expansion through 1972	1960	36,200	11,948	10,873	33	30
3. Alwaye Kerala	1948	7,150	2,604	3,234	36	45
4. Manali Tamil Nadu	1971	42,500 (1971/72) 85,000 (1972/73)	12,908	53,520	31	63
5. Moula Ali Andhra Pradesh	1946	6,700	919	1,171	14	17
6. Sindri Instituti Bihar	1958	3,760	1,601	2,368	43	63
7. Belagula Karnataka	1941	5,360	1,285	1,343	24	25
8. Debari Rajasthan	1967	12,000	7,484	7,572	62	63
TOTALS 1971/72		149,670	79,424		53	
1972/73		192,170		116,093		60

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Table 0  
India: Phosphorous Production in the Private Sector

Plant Location	Production Started	Present Plant Capacity 1/ (metric tons)	Output		Utilization	
			1971/72 2/ (metric tons)	1972/73 2/ (metric tons)	1971/72 2/ (%)	1972/73 2/ (%)
1. Dehli	1948	21,120	13,320	14,880	63	70
2. Magarwara Uttar Pradesh	1962	9,750	5,523	5,217	57	54
3. Udhna Gujarat	1962	5,360	7,529	6,703	140	125
4. Baroda Gujarat 3/	1951	3,760	3,098	2,105	82	56
5. Bhavnaqar Gujarat	1947	5,360	2,553	1,535	47	29
6. Kumhari Madhya Pradesh	1961	12,000	13,753	11,214	115 4/	93 4/
7. Ambernath Maharashtra	1924	11,710	15,036	19,616	163 4/	168 4/
8. Bombay Mahgrashtra	N.A.	890	300	364	34	41
9. Bombay Mahgrashtra	1948	540	823	704	154	130
10. Loni-Kalbhore Maharashtra	1967	5,360	--	2,451	--	46
11. Chandiapur Assam	1963	5,360	--	--	--	--
12. Khardah West Bengai	1961	5,360	4,047	7,233	75	135
13. Rishra West Bengal	1950	9,760	5,527	7,540	57	77
14. Tadepalli Andhra Pradesh	1960	6,400	4,315	4,731	68	74

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India: Phosphorous Production in the Private Sector  
(Continued)

25X1

Plant Location	Production Started	Present Plant Capacity 1/ (metric tons)	Output		Utilization	
			1971/72 2/ (metric tons)	1972/73 2/ (metric tons)	1971/72 2/ (%)	1972/73 2/ (%)
15. Tanuku						
Andhra Pradesh	1961	5,360	2,439	1,632	45	30
16. Nidadavole						
Andhra Pradesh	1964	8,130	1,817	788	22	10
17. Ennore						
Tamil Nadu	1962	7,150	4,602	3,298	64	46
18. Coimbatore						
Tamil Nadu	1966	6,500	1,695	1,926	26	30
19. Cuddalore						
Tamil Nadu	1963	6,500	48	--	1	--
20. Avadi						
Tamil Nadu	1957	12,180	11,471	11,194	95	92
21. Ranipet						
Tamil Nadu	1906	6,400	6,303	5,495	99	86
22. Munirabad						
Karnataka	1963	6,500	--	--	--	--
23. Bombay						
Maharashtra	1968	3,600	1,549	2,369	43	66
24. Ennore						
Tamil Nadu	1963	10,300	8,613	8,647	84	84
25. Ambernath						
Maharashtra	1968	12,150	3,468	2,210	29	18
26. Baroda						
Gujarat	1967	51,840	24,146	31,779	47	61
27. Visakapatnam						
Andhra Pradesh	1968	73,000	64,410	62,335	88	85
TOTALS 1971/72		312,340	210,385		67	
1972/73		312,340		216,482		69

1. Quantities in terms of phosphorous nutrient (P<sub>2</sub>O<sub>5</sub>).
2. India fiscal year 1 April - 31 March.

## India: New Phosphorous Plants

25X1

<u>Plant Location</u>	<u>Commercial Production Scheduled to Start</u>	<u>Capacity 1/ (metric tons)</u>
<u>Public Sector</u>		
1. Sindri Bihar	mid 1974	156,000
2. Ambelamadu Kerala	end 1976	115,000
3. Haldia West Bengal	early 1977	75,000
4. Trombay expansion Maharashtra	1977	110,000
5. Khetri Rajasthan	early 1975	90,000
6. Debari expansion Rajasthan	end 1974	29,700
<u>Private Sector</u>		
1. Rishra West Bengal	June 1973 2/	11,040
2. San Coale Goa	May 1973 2/	42,000
3. Ahmedabad Gujarat	early 1973 2/	1,440
4. Bourkela Orissa	June 1973 2/	7,600

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(Table Continues)

India: New Phosphorous Plants  
(Continued)

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<u>Plant Location</u>	<u>Commercial Production Scheduled to Start</u>	<u>Capacity 1/ (metric tons)</u>
<u>Private Sector</u> (Continued)		
5. Bulsar Gujarat	N.A.	2,800
6. Tuticorin Tamil Nadu	late 1974	53,000
7. Visakapatnam expansion Andhra Pradesh	mid 1974	31,000
8. Panvel Maharashtra	early 1975	7,200
<u>Cooperative Sector</u>		
1. Kandla Gujarat	early 1975	127,000

1. In terms of annual production of phosphorous nutrients ( $P_2O_5$ ).
2. There is no information available on production at these plants.